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| (54) Title: COMPOSITIONS AND METHODS FOR TREATING POLYCYSTIC KIDNEY DISEASE (57) Abstract   |   |   |

The present invention provides an isolated antibody or fragment thereof that binds to an epitope present in the transmembrane domain of polycystin and specifically recognizes a polycystin-related polypeptide having an apparent molecular weight in the range of about 600 to about 800 kD. Polynucleotides, polypeptides, gene delivery vehicles and host cells containing the transmembrane sequences are also provided. Further provided are methods and compositions for modulating the biological activity of polycystin in a suitable cell or tissue.